

KOP @ 654' F
End of Casing @4 1/2 LTC x BTC Cross Over
3.656" Frac Port
Depth @ 7243'
Open at 2051 Psi
3.750" Ball#8 Predator II Packer
Depth @ 7524'
Set with 1892 Psi3.431" Frac Port
Depth @ 7756'
Open at 2051 Psi
3.625" Ball#7 Predator II Packer
Depth @ 7951'
Set with 1892 Psi3.406" Frac Port
Depth @ 8093'
Open at 2051 Psi
3.500" Ball#6 Predator II Packer
Depth @ 8468'
Set with 1892 Psi3.281" Frac Port
Depth @ 8558'
Open at 2051 Psi
3.375" Ball#5 Predator II Packer
Depth @ 8990'
Set with 1892 Psi3.156" Frac Port
Depth @ 9271'
Open at 2051 Psi
3.250" Ball#4 Predator II Packer
Depth @ 9512'
Set with 1892 Psi3.031" Frac Port
Depth @ 9702'
Open at 2051 Psi
3.125" Ball#3 Predator II Packer
Depth @ 10034'
Set with 1892 Psi2.906" Frac Port
Depth @ 10357'
Open at 2051 Psi
3.000" Ball#2 Predator II Packer
Depth @ 10675'
Set with 1892 Psi2.781" Frac Port
Depth @ 10826'
Open at 2051 Psi
2.875" Ball#1 Predator II Packer
Depth @ 11441'
Set with 1892 PsiHydra-Pak SS Anchor
Depth @ 11339'
Set with 1892 PsiPump Out Plug
3.125" Frac Port
Set with 1125" Ball
Open with 4576 Psi

DOWNHOLE WELL PROFILE					
WELL NAME	Cimarex Energy, Glycerin 10 Fed Com #2H			DATE	4/25/10
SUPERVISOR	Billy Martin			TOOL HAND	Ray Lollar
PHONE #	575-390-4697			PHONE #	432-425-2193
RIG #	Cactus Drilling Co. Rig #122			FIELD TICKET #	5804
ELEVATIONS					
KB ELEV	GL ELEV	KB TO THF	KB TO SCF	RIG KBD	PBTD
				19	
CASING / OPEN HOLE LAYOUT		OD (IN)	LANDED DEPTH	WEIGHT (LB/FT)	TOP OF (FKB)
CASING DESCRIPTION		7	6830' Shoe	26	
WINDOW DESCRIPTION					
OPEN HOLE DESCRIPTION		6 1/8	11725.00	JUNCTION @	7554.00

Liner Schematic Tool Placement

DOWNHOLE DESCRIPTION FROM BOTTOM UP (Liner String)					
BOTTOM @	DESCRIPTION	LENGTH	ID	OD	
11390.00	Peak 3 1/2 Pump Out Plug (3" ID when Pumped Open)(Set with 1.125" Ball)	0.86	0.75	4.50	
11389.14	3 1/2 8rd Pin x 4 1/2 LTC Box Cross Over	1.01	4.00	4.50	
11388.13	1 Joint 4 1/2 P-110, 11.6# Liner w/LTC threads (1)	45.92	4.00	4.50	
11342.21	4 1/2 x 2' P-110 Liner Sub	2.09	4.00	4.50	
11340.12	7 x 4 1/2 Peak Rotating Centralizer	0.62	4.00	5.88	
11339.50	7 x 4 1/2 Peak Extreme Service, Open Hole Hydra-Pak, SS Anchor	4.91	4.00	5.88	
11334.59	4 1/2 x 6' P-110 Liner Sub	6.11	4.00	4.50	
11328.48	4 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (2-5)	183.87	4.00	4.50	
11144.61	4 1/2 x 2' P-110 Liner Sub	2.02	4.00	4.50	
11142.59	7 x 4 1/2 Peak Rotating Centralizer	0.62	4.00	5.88	
11141.97	7 x 4 1/2 Peak Extreme Service, Open Hole Predator II Packer w/HPHT Element System	4.02	4.00	5.69	
11137.95	4 1/2 x 6' P-110 Liner Sub	6.07	4.00	4.50	
11131.88	7 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (6-12)	305.24	4.00	4.50	
10826.64	Peak Gen III Strata-Port Frac Sleeve with 2.781" ID Seat (Open with 2.875" Ball)	3.55	2.78	5.88	
10823.09	7 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (13-19)	320.30	4.00	4.50	
10502.79	4 1/2 x 2' P-110 Liner Sub	2.10	4.00	4.50	
10500.69	7 x 4 1/2 Peak Rotating Centralizer	0.61	4.00	5.88	
10500.08	7 x 4 1/2 Peak Extreme Service, Open Hole Predator II Packer w/HPHT Element System	4.00	4.00	5.69	
10496.08	4 1/2 x 6' P-110 Liner Sub	6.05	4.00	4.50	
10490.03	3 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (20-22)	132.45	4.00	4.50	
10357.58	Peak Gen III Strata-Port Frac Sleeve with 2.906" ID Seat (Open with 3.000" Ball)	3.55	2.91	5.88	
10354.03	7 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (23-29)	317.25	4.00	4.50	
10036.78	4 1/2 x 2' P-110 Liner Sub	2.06	4.00	4.50	
10034.72	7 x 4 1/2 Peak Rotating Centralizer	0.60	4.00	5.88	
10034.12	7 x 4 1/2 Peak Extreme Service, Open Hole Predator II Packer w/HPHT Element System	3.99	4.00	5.69	
10030.13	4 1/2 x 6' P-110 Liner Sub	6.08	4.00	4.50	
10024.05	7 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (30-36)	322.01	4.00	4.50	
9702.04	Peak Gen III Strata-Port Frac Sleeve with 3.031" ID Seat (Open with 3.125" Ball)	3.55	3.03	5.88	
9698.49	4 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (37-40)	183.52	4.00	4.50	
9514.97	4 1/2 x 2' P-110 Liner Sub	2.11	4.00	4.50	
9512.86	7 x 4 1/2 Peak Rotating Centralizer	0.61	4.00	5.88	
9512.25	7 x 4 1/2 Peak Extreme Service, Open Hole Predator II Packer w/HPHT Element System	4.00	4.00	5.69	
9508.25	4 1/2 x 6' P-110 Liner Sub	6.05	4.00	4.50	
9502.20	5 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (41-45)	230.71	4.00	4.50	
9271.49	Peak Gen III Strata-Port Frac Sleeve with 3.156" ID Seat (Open with 3.250" Ball)	3.55	3.16	5.88	
9267.94	6 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (46-51)	275.53	4.00	4.50	
8992.41	4 1/2 x 2' P-110 Liner Sub	2.04	4.00	4.50	
8990.37	7 x 4 1/2 Peak Rotating Centralizer	0.62	4.00	5.88	
8989.75	7 x 4 1/2 Peak Extreme Service, Open Hole Predator II Packer w/HPHT Element System	4.01	4.00	5.69	
8985.74	4 1/2 x 6' P-110 Liner Sub	6.07	4.00	4.50	
8979.67	9 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (52-60)	413.41	4.00	4.50	
8566.26	Peak Gen III Strata-Port Frac Sleeve with 3.281" ID Seat (Open with 3.375" Ball)	3.55	3.28	5.88	
8562.71	2 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (61-62)	91.70	4.00	4.50	
8471.01	4 1/2 x 2' P-110 Liner Sub	2.07	4.00	4.50	
8468.94	7 x 4 1/2 Peak Rotating Centralizer	0.69	4.00	5.88	
8468.35	7 x 4 1/2 Peak Extreme Service, Open Hole Predator II Packer w/HPHT Element System	3.99	4.00	5.69	
8464.36	4 1/2 x 6' P-110 Liner Sub	6.03	4.00	4.50	
8458.33	8 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (63-70)	365.19	4.00	4.50	
8093.14	Peak Gen III Strata-Port Frac Sleeve with 3.406" ID Seat (Open with 3.500" Ball)	3.55	3.41	5.88	
8089.59	3 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (71-73)	135.14	4.00	4.50	
7954.46	4 1/2 x 2' P-110 Liner Sub	2.09	4.00	4.50	
7952.36	7 x 4 1/2 Peak Rotating Centralizer	0.61	4.00	5.88	
7951.75	7 x 4 1/2 Peak Extreme Service, Open Hole Predator II Packer w/HPHT Element System	4.02	4.00	5.69	
7947.73	4 1/2 x 6' P-110 Liner Sub	6.11	4.00	4.50	
7941.62	4 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (74-77)	183.08	4.00	4.50	
7758.54	Peak Gen III Strata-Port Frac Sleeve with 3.531" ID Seat (Open with 3.625" Ball)	3.55	3.53	5.88	
7754.99	5 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (78-82)	228.00	4.00	4.50	
7526.99	4 1/2 x 2' P-110 Liner Sub	2.08	4.00	4.50	
7524.91	7 x 4 1/2 Peak Rotating Centralizer	0.61	4.00	5.88	
7524.30	7 x 4 1/2 Peak Extreme Service, Open Hole Predator II Packer w/HPHT Element System	4.00	4.00	5.69	
7520.30	4 1/2 x 6' P-110 Liner Sub	6.10	4.00	4.50	
7514.20	6 Joints 4 1/2 P-110, 11.6# Liner w/LTC threads (83-88)	270.43	4.00	4.50	
7243.77	Peak Gen III Strata-Port Frac Sleeve with 3.656" ID Seat (Open with 3.750" Ball)	3.55	3.66	5.88	
7240.22	4 1/2 LTC Pin x 4 1/2 BTC Box Cross Over	1.84	4.00	4.50	
7238.38	11 Joints 4 1/2 P-110, 11.6# Liner w/BTC threads (1-11)	475.47	4.00	4.50	
6762.91	4 1/2 BTC Pin x 4 1/2 LTC Box Cross Over	1.88	4.00	4.50	
6761.03	4 1/2 x 2' P-110 Liner Sub	2.07	4.00	4.50	
6758.96	Peak 7" 26# SMP-X Casing Hanger with HPHT Element System	9.44	4.00	5.94	
6749.52	TLC Releasing Adaptor with 1.750 ID Seat (Release with 2" Steel Ball)	2.69	1.75	5.38	
6746.83	Peak 4 1/2" x 4" ID 3-Lug Gudgeon	2.50	4.00	4.50	
6744.33	TLC Running/Releasing Tool x 3 1/2 IF Box Cross Over	0.83	2.25	5.00	
6743.50	3 1/2 IF Drill Pipe Handling Sub	7.67	2.76	3.50	
6735.83	40 Joints 4 3/4" OD Drill Collars 3 1/2 IF Threads	1228.71	2.25	4.75	
5507.12	174 Joints 3 1/2 13.3# Drill Pipe to Surface (IF Threads)	5508.33	2.76	3.50	
-1.21	Stick Up	0.00	2.76	3.50	
		0.00			
WEIGHT OF TUBING STRING		TOTAL STRING LENGTH		11391.21	
BUSH / PULL TEST		STICK UP OR RIG FLOOR		9.56	
LINER STRING WEIGHT		TUBING BOTTOM		11381.65	

Final Tool Placement 4/29/10
Completed by Ray Lollar*** CONFIDENTIAL ***
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Cimarex Energy Company